

Amendments to the Specification

Please replace the abstract with the following amended abstract:

A vaporizer is provided for delivering a solid source, such as arsenic for example[[,]] that is arsenic vaporized in a crucible, into an arc chamber through a nozzle[[,]] ~~wherein the~~. The vaporizer includes a nozzle formed with a gas inlet port [[130]] formed in upward orientation and located downward from the upper end of the inner surface of the crucible. Here, when the crucible has an inner diameter of[[,]] 26 mm for example, [[26 mm]][[,]] the gas inlet port [[130]] is preferably formed at a position approximately 1.1 mm below the upper end of the inner surface of the crucible, thereby facilitating the introduction of the gas from the gas inlet port [[130,]] and preventing clogging of the nozzle.